



217/782-6760

Refer to: Cook County - 03100901 - Arlington Heights/Municipal

March 2, 1977

Mr. Allen Sander
Village Engineer
Village of Arlington Heights
33 South Arlington Heights Road
Arlington Heights, Illinois 60005

Dear Mr. Sander:

Confirming out telephone conversation of earlier today, I am enclosing copies of the required Comprehensive Water Analysis List for background surface and ground water samples and a typical monitor well installation diagram showing this Division's construction requirements. A recommended permanent sampling point for the proposed ice skating-storm water retention pond would be midway along its south-east side (nearest the landfill). The well should be installed near the middle of the area enclosed by the 710 contour (Figure 2 - Grading Plan - Landfill Site Master Plan by Stanley Consultants, Inc., dated November 29, 1976) immediately northwest of the water storage tank. Due to its location in the final-use picnic area, installation of the optional well protection pipe and locking cap as shown on the diagram is strongly recommended.

The following data shall have been submitted in duplicate to the Agency by June 30, 1977:

1. monitoring point location map showing finalized locations of the points described above;
2. a monitor well construction diagram showing all materials, screened interval, depth to water (after 24 hours) and casing head elevation;
3. results of comprehensive background samples from both monitoring points;
4. a boring log of the Village water supply well located south of the site.

Page 2

Following receipt and review of the above information, a routine quarterly monitoring program in accordance with Rules 317 and 318(a) of the Illinois Solid Waste Rules and Regulations will be established by this office. Should questions arise during the closure of the site, do not hesitate to contact either myself or the Aurora Regional Office.

Very truly yours,



Thomas P. Clark
Hydrogeologist
Technical Operations (Land)
Division of Land/Noise Pollution Control

TPC:jlr:W1&2

Enclosures

cc: Northern Region
Division (FOS) File
#Q File - T. Clark

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

2200 Churchill Road
62706



Springfield, Illinois
Phone:

RECEIVED

MAR 24 1978

EPA - D - 10
STATE OF ILLINOIS

LAND POLLUTION CONTROL COMPREHENSIVE WATER ANALYSIS LIST

	WELL	LAKE (No.)	LAKE (So.)
1. Alkalinity, as CaCO ₃	88	122	144
2. Ammonia, as N	0.93	0.30	0.27
3. Boron (B)	0.19	0.77	0.69
4. Calcium (Ca)	67.4	77.3	75.2
5. Chloride (Cl)	14	236	238
6. Chromium (TOT)	0.003	0.006	0.003
7. COD	361	34	14
8. Copper (Cu)	0.005	0.004	0.003
9. Hardness, as CaCO ₃	256	332	324
10. Iron (Fe)	1.04	0.14	0.08
11. Lead (Pb)	0.03	<0.01	<0.01
12. Magnesium (Mg)	24.1	36.4	35.8
13. Manganese (Mn)	0.68	0.017	0.011
14. Mercury (Hg)	<0.0001	<0.0001	<0.0001
15. pH	7.86	8.04	7.89
16. Potassium (K)	3.51	7.54	7.29
17. Sodium (Na)	21.1	204	191
18. Sulfate (SO ₄)	200	175	178
19. Total Dissolved Solids	390	813	880
20. Zinc (Zn)	1.94	0.006	0.002

-21- Percent-Error: (Cation and Anion Balance)



STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY RECEIVED
BUREAU OF SOLID WASTE

APPLICATION MUST BE
SUBMITTED IN DUPLICATE

APPLICATION FOR PERMIT FOR CONSTRUCTION, INSTALLATION, MODIFICATION OR OPERATION OF
SOLID WASTE DISPOSAL SITE AND TO REGISTER SITE IN ACCORDANCE WITH THE ENVIRONMENTAL
PROTECTION ACT

Village of Arlington Heights

1. Name of Owner (If corporation list name of corporation and name and address of officers)

33 S. Arlington Heights Road

Arlington Heights, Illinois 60005

Address of Owner

Village of Arlington Heights

2. Name of Site Operator

Address - City, County, Corp. or Company

Twin Hills Solid Waste and Recreation Area, 3700 N. Kennicott, Arlington Heights, Cook 60005

3. Name of Site or Facility

Address of Installation: (Street, City, County, Zip Code)

Village of Arlington Heights

(Inside incorporated limits--City Name)

(Outside city limits--Include Township)

Location of Project Cook

(County)

Arlington Heights, Illinois

(Municipality, etc.)

Application is hereby made to the Environmental Protection Agency of the State of Illinois
for the issuance of a permit TO INSTALL

Sanitary Land Fill

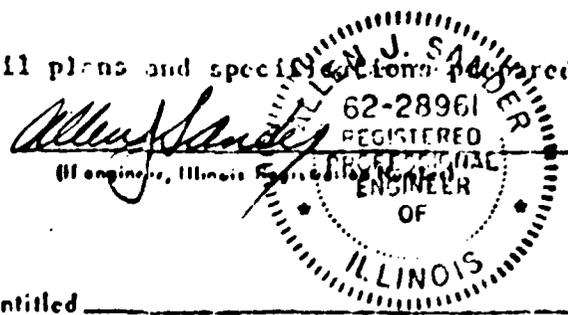
(Describe briefly the site or facility for which application is made)

and to operate said

facility as more fully shown on accompanying detail plans and specifications prepared by

Village of Arlington Heights

(Name of owner or engineer)



(If engineer, Illinois Registered Professional Engineer)

Acting as my agent (Delete if not applicable)

Said plans consisting of _____ sheets and entitled _____

being made a part hereof.

8. Provide topo map with contour intervals not greater than 5 feet.

9. Length, width and depth of proposed trench 400' x 100' x 18'

maximum number of trenches at one time if trenches are used. 2

10. Equipment to be used:

(a) Number & Type of Units	<u>2 Scrapers, 2 Loaders, 1 Dozer</u>	(b) Size of Earth	<u>1-10 yd. scraper</u>
			<u>1-20 " "</u>
			<u>1-2 1/2 " loader</u>
			<u>1-4 " "</u>

11. Indicate method of handling and treatment of any leachate. Show on topo map method of diverting surface or storm water runoff and the stream or water course; indicate the frequency in days per year the site will be subject to being flooded

None

12. What method and/or equipment is proposed for the control of fires Fire Extinguishers on all equipment.

Also two in office - 7000 G.P.M. Municipal Pumping Station adjacent to Landfill - supplemented by Arlington Heights Municipal Fire Department.

13. The area proposed will be adequate to serve the area population for a number of years 6

to 1978...
 14. SUBMIT A LEGAL DESCRIPTION OF SITE. That part of the East half of Government Lot 1 of the Northwest quarter of Section 6, Township 42 North, Range 11 East of the Third Principal Meridian, lying South of the center line of the gravel road known as Nichols Road, and also the Northeast quarter of the Southwest quarter of said Section 6, Township 42 North, Range 11, East of the Third Principal Meridian, all in Cook County, Illinois.

TO BE COMPLETED BY ENGINEER OR OWNER

15. LOCATION SKETCH. Show area of site or facility, closest water well, habitation, quarter section, section, township and range. (This information is in addition to the detail plans and specifications for construction and operation)

See attached 8 1/2 x 11 area map



PROJECT APPROVAL

Solid waste disposal site or utility: By indicating their approval hereon, the signers hereby attest that the proposed refuse or solid waste disposal site or proposed site improvements or additions thereto will be under proper supervision of a qualified operator or other responsible person.

FOR CONSTRUCTION OR ESTABLISHING APPROVAL

Date

(Signature of Applicant or Agent)

Title: Owner, Installer or Agent

FOR OPERATION AND MAINTENANCE APPROVAL

(Signature of Applicant or Agent)

Director of Public Works

(Title)

Attested

February 22, 1972

(Date)

Allen Sander
(Signature)

Director of Engineering

(Title)

THE FOLLOWING INFORMATION IS REQUESTED

1. Size of area in acres 58. Also give length and width 1840' x 1300' feet.

2. Volume and/or weight of waste anticipated per day 800 yds. month 20,000
year 242,500.

3. The number of days per week the site will be open for operation 6.

4. Population to be served 90,000-100,000.

5. Type of waste or refuse to be handled at this site Garbage
(Garbage, Brush, Concrete, Chemical or Toxic Materials, etc.)

6. Distance to the nearest water well on site; to the nearest residence 500 ft.

7. Depth to the water table from the proposed base of landfill operation in feet _____



AQUALAB INC.

RECEIVED

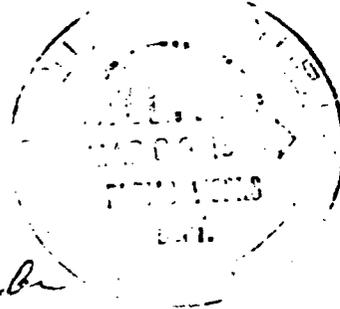
MAR 24 1978

E.P.A. - D.L.P.C.
STATE OF ILLINOIS

ANALYTICAL REPORT

3 March 1978

VILLAGE OF ARLINGTON HTS.
222 N. Ridge Avenue
Arlington Hts, IL 61312



ANALYSIS NO: 28357
28358
28359

Attn: Mr. Don Remer *al Remer*

DATE TAKEN: 2/23/78 1430 DATE RECEIVED: 2/23/78 DATE ANALYZED: 2/23/78

Date-Time Taken	Analysis No.	Sample Description
2/23/78 1300	28357	Landfill-Monitoring Well
2/23/78 1400	28358	Landfill-Monitoring Well-Lake (North)
2/23/78 1330	28359	Landfill-Monitoring Well-Lake (North)

	0.93 28357	0.30 28358	0.27 28359	
AMMONIA (N)				
Alkalinity	88.	122.	144.	mg/l
Boron	0.19	0.77	0.69	mg/l
Calcium	67.4	77.3	75.2	mg/l
Chloride	14.	236.	238.	mg/l
Chromium, total	0.003	0.006	0.003	mg/l
COD	361.	34.	14.	mg/l
Copper	0.005	0.004	0.002	mg/l
Hardness	256.	332.	324.	mg/l
Iron, total	1.04	0.14	0.08	mg/l
Lead	0.03	<0.01	<0.01	mg/l
Magnesium	24.1	36.4	35.8	mg/l
Manganese	0.68	0.017	0.011	mg/l
Mercury	<0.0001	<0.0001	<0.0001	mg/l
Nitrogen, NH ₄	0.93	0.30	0.27	mg/l
pH	7.86	8.04	7.89	@ 25°C
Potassium	3.51	7.54	7.29	mg/l
Sodium	21.1	204.	191.	mg/l
Solids, totdiss.	390.	813.	880.	mg/l
Sulfate	200.	175.	178.	mg/l
Zinc	1.94	0.006	0.002	mg/l

J.K. Hamilton